

Increased Lysine Production by Gene Amplification

Abstract

See B2D

5 The invention provides methods to increase the production of an amino
acid from *Corynebacterium* species by way of the amplification of amino acid
biosynthetic pathway genes in a host cell chromosome. In a preferred
embodiment, the invention provides methods to increase the production of L-
lysine in *Corynebacterium glutamicum* by way of the amplification of L-lysine
biosynthetic pathway genes in a host cell chromosome. The invention also
provides novel processes for the production of an amino acid by way of the
10 amplification of amino acid biosynthetic pathway genes in a host cell
chromosome and/or by increasing promoter strength. In a preferred embodiment,
the invention provides processes to increase the production of L-lysine in
Corynebacterium glutamicum by way of the amplification of L-lysine
biosynthetic pathway genes in a host cell chromosome. The invention also
15 provides novel isolated nucleic acid molecules for L-lysine biosynthetic pathway
genes of *Corynebacterium glutamicum*.

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